

Appl. No. : 10/007,797
Filed : November 7, 2001

AMENDMENTS TO THE CLAIMS

Please cancel Claims 5 and 6 without prejudice.

Please amend Claims 1 and 4 as follows.

Please add Claims 7 and 8 as follows.

1. (Currently amended) A method for brazing aluminum alloy-assembled articles within a short period of time, which comprises brazing aluminum alloy-assembled articles with a filler alloy of Al-Si-Cu-Zn series having a liquidus temperature of 540°C or lower and a difference of temperature between the liquidus and the solidus temperature being 100°C or lower, wherein the highest temperature reached in the assembled articles at the time of heating for brazing is set 40°C or more higher than the liquidus temperature but 585°C or lower.
2. (Original) The method for brazing aluminum alloy-assembled articles within a short period of time according to claim 1, wherein elevation of the temperature after exceeding the liquidus temperature is continued without keeping the article at a fixed temperature.
3. (Original) The method for brazing aluminum alloy-assembled articles within a short period of time according to claim 1 or 2, wherein a vacuum brazing method or a NB method is carried out in nitrogen gas atmosphere with flux of Cs series as non-corrosive flux.
4. (Currently amended) The method for brazing aluminum alloy-assembled articles within a short period of time according to any one of claims 1 to 3, wherein ~~an alloy selected from the group consisting of (a) a Zn alloy containing 4.0 wt % of Al, (b) a Zn alloy containing 11.0 wt % of Al and 3.0 wt % of Cu, and (c) an Al alloy containing approximately 6.0 wt % of Si, 25.0 wt % of Cu, and 5.0 wt % of Zn~~ is used as the filler alloy.
- 5-6. (Cancelled)

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7. (New) The method of Claim 1, wherein the filler alloy is usable at low temperature for brazing, and comprises Si in an amount of 4.0 wt % or more but less than 8.0 wt %, Zn in an amount of 7.0 wt % or more but 20.0 wt % or less and Cu in an amount of 10.0 wt % or more but 35.0 wt % or less, with the balance being made of aluminum and any unavoidable impurities.

8. (New) The method of Claim 1, wherein the filler alloy is usable at low temperature for brazing, and comprises Si in an amount of 5.0 wt % or more but less than 7.0 wt %, Zn in an amount of 9.0 wt % or more but 20.0 wt % or less and Cu in an amount of 19.0 wt % or more but 27.0 wt.% or less, with the balance being made of aluminum and any unavoidable impurities.